

Help Menu Documents

- **VTrckS help manual**
 - Walks through all functionality in the Vaccine Ordering, Returns and Wastages module
 - This document is also accessible within the ordering module.
- **Vaccine Coverage Table**
 - Provides guidance on which public vaccines can be given to which kids and adults
- **NDIIS Help**
 - Provides details and guidance on all NDIIS functionality
- **NDIIS Confidentiality Policy**
 - Outlines:
 - patient participation based on ND Century Code
 - use of NDIIS data
 - classification of NDIIS users
 - NDIIS data access and security
 - All NDIIS users electronically acknowledge this policy the first time they log in and annually after that.

Documents continued...

- **Flu Vaccine Abbreviations**
 - Maps all of the available influenza vaccines with their NDIIS name/abbreviation, brand name and vaccine description
 - Reference this document when:
 - needing to know which vaccine name/abbreviation to select in the NDIIS when entering new lots into your provider inventory and
 - when documenting individual doses in NDIIS client records.
- **Abbreviations – Trade Names**
 - Maps all non-influenza vaccines available with their NDIIS name/abbreviation, brand name and vaccine description
 - Reference this document when:
 - needing to know which vaccine name/abbreviation to select in the NDIIS when entering new lots into your provider inventory and.
 - when documenting individual doses in NDIIS client records.

Parental Consent for Immunizations

- Adolescents 14-17 years of age may receive HPV and Hepatitis B vaccines without parental consent.
- Check Box Defaults to **Select One** and an answer must be chosen before dose can be saved
- If Parental Consent is set to **NO** the doses do not print on Certificate of Immunization, but will still show in NDIIS.

Dose Management

*Provider: 1 - ND DEPT OF HEALTH

*Dose Date: 05/22/2012

*Lot #: 089Y ☒ Exclude Expired Lots

Vaccine: HEPB (Preservative Free)

Reaction: NONE

*VFC: SELECT ONE

☐ Invalid Dose

SELECT ONE ☒ Parental consent has been given to allow the display of Hep B and HPV vaccination information on the Certificate of Immunization for children 14 through 17 years of age.

Vaccine Management

- Privately purchased vaccine lots can be added through the NDIIS Lot Management.
- Private vaccine must be manually added to your NDIIS vaccine inventory.
- All public (i.e. state) vaccine is entered for you automatically.

North Dakota Immunization Information System

Provider: 1 - N.D. DEPT OF HEALTH

Client: Search

Provider: Lookup

Reminder/Recall: Create Reminder-Recall

VFC Vaccine: Vaccine Ordering, Returns and Wastages

Vaccine Management: Lot Management, Vaccine Log

Reports: Reports

Other: Descriptions

Note: For complete instructions and video tutorial on managing private vaccine inventory in the NDIIS Provider Lot Management, visit the immunization program web page at <http://www.ndhealth.gov/immunize/NDIIS/Training.htm>

Lot Management

- To add privately purchased lot numbers to your inventory:
 - click **Add** and enter the vaccine's information
 - clicking on the **Save** button will add the vaccine to your inventory
 - IMPORTANT: changes to your inventory must be made in the **Lot Distribution** tab of the Provider Page
- All state supplied vaccine will be automatically entered into the registry.

Lot Management

Lot Code: 00004

Lot Number: 00002

Manufacturer: MERCK

Vaccine: DTPW (Preservative Free)

of Vials: 0000

Doses per Vial: 1

Cost per Dose: 0.00

Lot Type: NORMAL

Expiration Date: 09/09/2015

Add Change

Lot Management

Lot Code: 00012

Lot Number: SELECT ONE

Manufacturer: SELECT ONE

of Vials: SELECT ONE

Doses per Vial: SELECT ONE

Cost per Dose: SELECT ONE

Lot Type: NORMAL

Expiration Date: SELECT ONE

Save Add Change Cancel

required fields

- Privately purchased lot information can also be changed from this screen.
 - Making changes to a vaccine lot does not automatically update any associated dose records containing this lot number.

Lot Distribution

- The Lot Distribution is accessed through the NDIIS provider page.
 - This is where public and private vaccine inventory is reconciled and can be transferred between providers in the NDIIS.

North Dakota Immunization Information System

Provider: 1 - N.D. DEPT OF HEALTH

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Reports: Reports

Other: Descriptions

Lot Distribution continued...

- The Lot Distribution tab displays a provider's public and private vaccine inventory.
- The information provided includes:
 - lot number
 - vaccine
 - expiration date
 - doses on hand

Provider Information | Comments | **Lot Distribution**

Name: 9999 - TEST Type: Supply

Lot Number	Vaccine	Expiration	On Hand
00000112TEST - Private	DTAP	01/02/2007	5
0418U	MMR	01/02/2006	4
000782P	MMR (Live virus)	01/15/2010	1
544K	CHICKENPOX	02/02/2007	2
007805 - Private	CHICKENPOX	06/06/2010	205
aaaherocrypt11 - Private	CHICKENPOX	01/01/2006	1
scott test2 - Private	BOTULINUM ANTITOXIN	12/31/2021	54

☐ Include Expired Lots
☐ Include No Doses on Hand
 Lots Found: 7

- doses on hand quantity is affected by:
 - manually adjusting the amount on hand
 - transferring doses to another provider
 - wasting doses
 - returning doses
 - adding doses to client records

Lot Distribution continued...

- The **Adjust** function allows providers to reconcile the number of doses on hand in the NDIIS with the number of doses actually on hand.
 - Reconciliation of public vaccine should be done prior to submitting any new vaccine orders.
 - Any changes to the number of doses on hand for public vaccine will show up in the ordering grid the next business day but will show in the return and wastage grids immediately.

Provider Information | Comments | **Lot Distribution**

Name: 0000 - TEST Type: **Adjust**

Trans. Date: 08/16/2015

Lot Number	Vaccine	Expiration	On Hand	Actual On Hand
00001THTEST - Private	MCV4 (Meningococcal)	12/31/2009	14	
9999WTESTB87 - Private	PCV13 (PNEUMOCOCCAL)	06/30/2014	16	
W010145 - Private	HAV (2 doses)	02/27/2015	5	1
WWTTESTLOT - Private	DTAP-HB-IPV (Pertacel)	10/27/2014	6	
scott test2 - Private	BOTULINUM ANTITOXIN	12/31/2021	54	
UPGRADETEST - Private	ROTAVIRUS (2 DOSE)	10/31/2017	10	

Lot Distribution continued...

- The **Transfer** function should be used when a provider is physically transferring vaccine to another provider.
 - This will removed the dose(s) from the sending provider's inventory and add it to the receiving provider.

Provider Information | Comments | **Lot Distribution**

Name: 0000 - TEST Type: **Transfer**

To: SELECT ONE

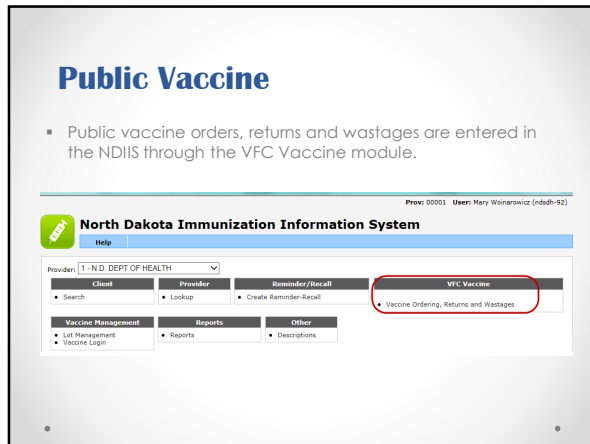
Trans. Date: 08/16/2015

Lot Number	Vaccine	Expiration	On Hand	Doses To Transfer
00001THTEST - Private	MCV4 (Meningococcal)	12/31/2009	14	
9999WTESTB87 - Private	PCV13 (PNEUMOCOCCAL)	06/30/2014	16	10
W010145 - Private	HAV (2 doses)	02/27/2015	5	
WWTTESTLOT - Private	DTAP-HB-IPV (Pertacel)	10/27/2014	6	5
scott test2 - Private	BOTULINUM ANTITOXIN	12/31/2021	54	
UPGRADETEST - Private	ROTAVIRUS (2 DOSE)	10/31/2017	10	5

Note: For complete instructions on how to best utilize the NDIIS Provider Lot Distribution, visit the immunization program web page at <http://www.ndihealth.gov/immunize/NDIIS/Training.htm>

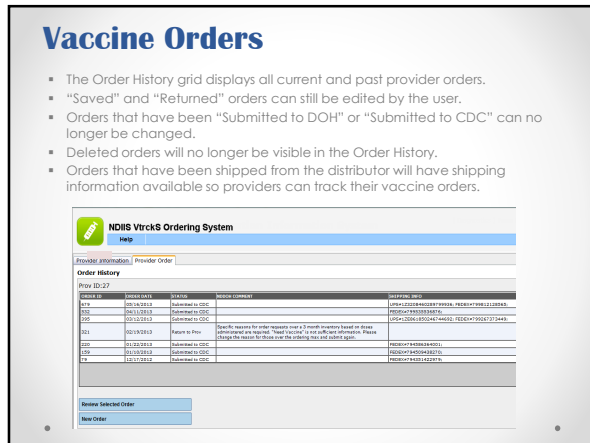
Public Vaccine

- Public vaccine orders, returns and wastages are entered in the NDIIS through the VFC Vaccine module.



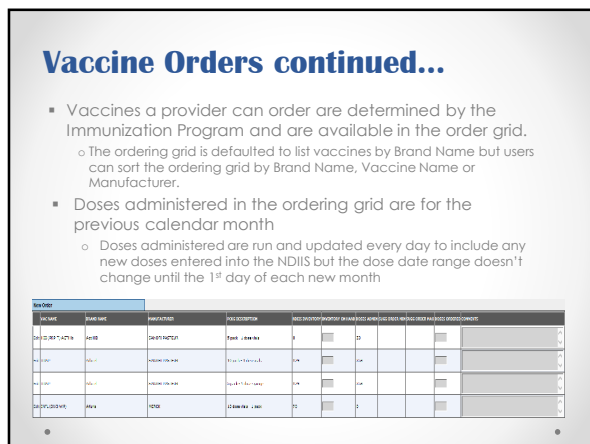
Vaccine Orders

- The Order History grid displays all current and past provider orders.
- "Saved" and "Returned" orders can still be edited by the user.
- Orders that have been "Submitted to DOH" or "Submitted to CDC" can no longer be changed.
- Deleted orders will no longer be visible in the Order History.
- Orders that have been shipped from the distributor will have shipping information available so providers can track their vaccine orders.



Vaccine Orders continued...

- Vaccines a provider can order are determined by the Immunization Program and are available in the order grid.
 - The ordering grid is defaulted to list vaccines by Brand Name but users can sort the ordering grid by Brand Name, Vaccine Name or Manufacturer.
- Doses administered in the ordering grid are for the previous calendar month
 - Doses administered are run and updated every day to include any new doses entered into the NDIIS but the dose date range doesn't change until the 1st day of each new month



Vaccine Orders continued...

- Order minimum and maximum are based on doses administered during the previous calendar month and inventory on hand.
 - Suggested Order Min = 1 month of vaccine, rounded to the nearest package quantity
 - Suggested Order Max = 3 months of vaccine, rounded to the nearest package quantity

Vaccine Returns

- The Return History grid displays all current and past provider returns.
- "Saved" returns can still be edited by the user.
- Returns that have been "Submitted to DOH" or "Submitted to CDC" can no longer be changed.
- Deleted returns will no longer be visible in the Return History.

Return ID	Return Date	Status	Return Status
100111	01/17/2015	Not	Ready To Print
100112	01/17/2015	Not	Ready To Print
100113	01/17/2015	Not	Ready To Print
100114	01/17/2015	Not	Ready To Print
100115	01/17/2015	Not	Ready To Print
100116	01/17/2015	Not	Ready To Print
100117	01/17/2015	Not	Ready To Print
100118	01/17/2015	Not	Ready To Print
100119	01/17/2015	Not	Ready To Print
100120	01/17/2015	Not	Ready To Print
100121	01/17/2015	Not	Ready To Print
100122	01/17/2015	Not	Ready To Print
100123	01/17/2015	Not	Ready To Print
100124	01/17/2015	Not	Ready To Print
100125	01/17/2015	Not	Ready To Print

Vaccine Returns continued...

- The New Return grid will be populated with lot information from the provider's lot distribution and will include:
 - Only state supplied lots
 - Lots that have expired within the past 12 months
 - Lots that have not yet expired
 - Lots with greater than zero doses on hand

Return ID	Return Date	Status	Return Status	Comments
100126	01/17/2015	Not	Ready To Print	
100127	01/17/2015	Not	Ready To Print	
100128	01/17/2015	Not	Ready To Print	
100129	01/17/2015	Not	Ready To Print	
100130	01/17/2015	Not	Ready To Print	
100131	01/17/2015	Not	Ready To Print	
100132	01/17/2015	Not	Ready To Print	
100133	01/17/2015	Not	Ready To Print	
100134	01/17/2015	Not	Ready To Print	
100135	01/17/2015	Not	Ready To Print	
100136	01/17/2015	Not	Ready To Print	
100137	01/17/2015	Not	Ready To Print	
100138	01/17/2015	Not	Ready To Print	
100139	01/17/2015	Not	Ready To Print	
100140	01/17/2015	Not	Ready To Print	

Vaccine Returns continued...

- Returns that have been loaded in to CDC's system will have a print status of "Ready to Print" that indicates to the user they can print their packing slip from the provider return screen.
 - To get packing slip, click on return from the Return History grid
 - Click the Print Packing Slip button
 - The packing slip will open as a PDF document with all the return information

➤ Vaccine returns cannot be shipped back to the manufacturer or distributor without the NDIIS packing slip and the McKesson shipping label

How many shipped packages will need shipping labels? Submit

Vaccine	Lot Number	Expiration Date	Manufacturer	Doses	Return Reason
MCIA Measles	M1020	10/31/2014	NOVARTIS	10	DOT - Mechanical Mark

Vaccine Wastages

- The Wastage History grid displays all current and past provider wastages.
- "Saved" wastages can still be edited by the user.
- Wastages that have been "Submitted to DOH" or "Submitted to CDC" can no longer be changed.
- Deleted wastages will no longer be visible in the Wastage History.

Provider Information | Provider Order | Provider Returns | Provider Wastage

Wastage History

Prov ID: 27

Wastage ID	Wastage Date	Wastage Reason
12045	10/15/2014	DOT
12048	10/15/2014	Submitted to CDC

Definition of vaccine wastage: nonviable vaccine that is not able to be returned to McKesson. This includes broken vaccine vials or syringes, vaccine drawn into a syringe but not administered, lost or unaccounted for vaccine and partially used multi-dose vials. Vaccine being returned to McKesson must be entered as a vaccine return and should not be entered on this tab.

Vaccine Wastages continued...

- The New Wastage grid will be populated with lot information from the provider's lot distribution and will include:
 - Only state supplied lots
 - Lots that have expired within the past 12 months
 - Lots that have not yet expired
 - Lots with greater than zero doses on hand

New Wastage

VAC NAME	LOT NUMBER	EXPIRATION DATE	NDIIS INVENTORY	DOSE WASTAGE	WASTE REASON	COMMENTS
DTAP-HIV-OPV (Pediatric)	AC2081404	02/11/2014	0			
DTAP-OPV	AC2082104	08/29/2014	7			
DTAP-OPV	AC2082104	08/29/2014	30			
HAV (2 dose)	AV0180204	08/29/2014	10			
HIV Pediatric	AV0180204	01/15/2015	12			

➤ Cannot waste more doses than NDIIS inventory indicates are on hand for the selected lot

Edit Vaccine Wastage

Vaccine Name:

Lot Number:

Expiration Date:

NDIIS Inventory:

Dose Wastage:

Wastage Reason:

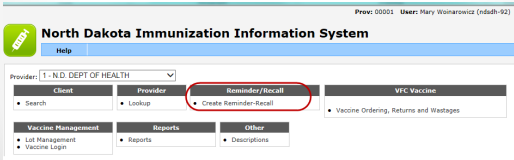
Comment:

Reminder Recall

Reminder Recall

- System that can be used to identify patients who are either coming due or are past due for vaccines.
 - A Reminder is a communication to an individual that he/she is due now or on a future date for immunization(s).
 - A Recall is a communication to an individual that he/she is past due for immunization(s).

Prev: 00001 User: Mary Womackova (ndiuh-92)

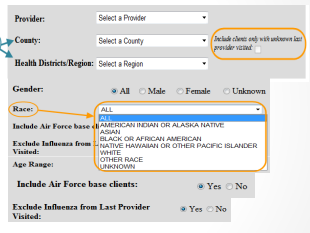


Note: For complete instructions on NDIIS Reminder/Recall, visit the Immunization program web page at <http://www.ndhealth.gov/immunize/NDIIS/Training.htm>

Reminder Recall continued...

These two fields will only have selectable options for local public health units.

The NDDoH recommends:
 Gender: ALL
 Race: ALL
 Include Air Force Base clients: NO
 Exclude Influenza from Last Provider Visited: YES



Reminder Recall continued...

- Reminder Recall can be run for different age cohorts which can be determined by:
 - min and max age ranges
 - pre-set age ranges
 - birth date ranges

Age Range:

☐ Min Age: Max Age: Age In:

☐ Birth Date Range: From To (mm/dd/yyyy)

- Select the vaccines for the report to look for using the check boxes
 - if no vaccines are selected, then all forecasted vaccines will be included
 - if the patient is due/past due for more vaccines, all vaccines will be accommodated in a single notification

Vaccine Families: (If no vaccine is selected then all forecast vaccines will be used.)

☐ DTAP ☐ PCV ☐ Hib ☐ IPV ☐ Polio ☐ Tdap ☐ MMR ☐ HPV ☐ MMR ☐ Rotavirus ☐ Varicella ☐ MCV4 ☐ Hep A ☐ Zoster ☐ Influenza

Reminder Recall continued...

- After all criteria have been selected:
 - click **Run Reminder Recall** for the list of patients meeting the selection criteria
 - providers can print labels or directly onto postcards, or select **Download List** to see an Excel spreadsheet of the patients
 - Phone numbers can be loaded from the downloaded list into an auto-dialer system.

☐ Include Patients Due for Vaccination (Reminders) ☐ Yes ☐ No
Maximum number of days until due date to include: (If Yes is Selected)

☐ Include Patients Overdue for Vaccination (Recalls) ☐ Yes ☐ No
Minimum number of days past due date to include: (If Yes is Selected)

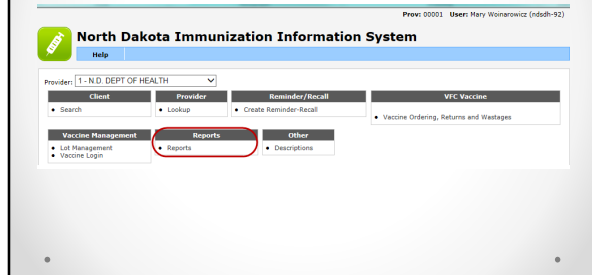
Records	Last Name	First Name	Middle Name	BirthDate	Address1	Address2	Apartment No.	PO BOX	City	State	Zip	Home Phone	Cell
1	ARMSTRONG	CLIENT	J	04/24/2009	STREET ADDRESS				HALLIDAY ND	58640	7017446131	564	
2	LAST NAME	FIRST NAME	M	05/21/2009	STREET ADDRESS				KILLDEER ND	58640	7017446131	564	
3	ARMSTRONG	CLIENT	J	04/24/2009	STREET ADDRESS				HALLIDAY ND	58640	7017446131	564	
4	LAST NAME	FIRST NAME	J	08/11/2009	STREET ADDRESS				KILLDEER ND	58640	7017446131	564	

- The NDDoH recommends all immunization providers use reminder/recall, especially for infants

Reports

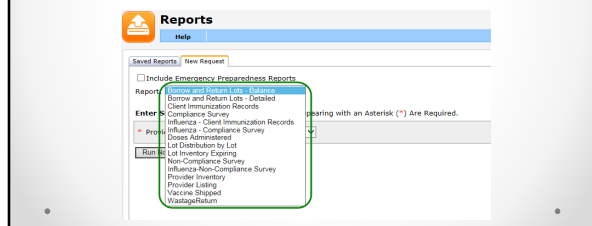
Reports

- The NDIIIS has 15 standard reports available to all users with read/write access.



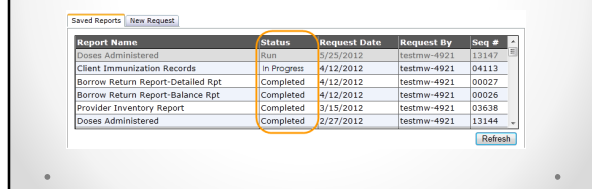
Reports continued...

- To run a new report from the New Request tab of the NDIIIS reports module:
 - Select your report from the drop-down box and fill in your desired criteria
 - Any required report fields will be marked with an *
 - click **Run Now** to run the report immediately or click **Run Later** to run the report during the nightly maintenance
 - Reports run later will cannot be accessed until the following day



Reports continued...

- All run reports will be on the Saved Reports grid.
 - If your newly run report is not on the report grid, click the **Refresh** button to refresh the list of reports
- Reports can have one of three statuses listed:
 - Run** – the report is being run by the system
 - In Progress** – the system is processing and compiling the report information
 - Complete** – the report is complete and can now be viewed



Compliance Survey (immunization rate) Report

- Creates a report of the percent of clients up-to-date with the selected vaccines/vaccine series.
- Required fields:
 - Min and Max Age – required if not using birthdate range
 - Starting and Ending Birthdate – required if not using Min/Max Age
 - Evaluation Date – will include doses given on or before the date entered
 - Report By – displays rates by county or provider
 - Last Provider Visited – limits search by the last provider to enter a non-influenza vaccine in the client's record
 - County – limits search by client county of residence [based on NDIIS demographics]
 - Provider Type – limits search by type of provider that entered vaccine doses
 - Can run for multiple provider types at once
 - Vaccine Series – which vaccine(s) and/or series the report will pull
 - Number of doses will need to be entered when selecting individual vaccines
 - Number of doses are auto-filled when vaccine series is selected

Can run for combination of providers, counties and provider types
 Recommend to run for only one of these criteria at a time. The more criteria that are selected, the fewer NDIIS clients the report will find that actually meet the selection criteria resulting in lower rates

Influenza Compliance Survey Report

- Has same function and selection criteria as regular compliance survey report, just looks specifically for influenza.
- Allows you to enter a specific dose date range to look for up-to-date rates during a specific flu season.
- Only allows the selection of influenza for vaccine.

Compliance Survey Report

Compliance Survey Report				
Printed on 10/22/2012 8:34:21 PM				
Report Criteria				
Evaluation Date:	03/20/2012			
Exclude Influenza from Last Provider:	Yes			
Include All Private Reside Clients:	No			
Include Components in Calculation:	Yes			
VFC Type(s):	ALL VFC TYPES			
Report By:	County			
Starting Birthdate:	01/01/2009			
Ending Birthdate:	01/01/2011			
County of Residence:	BURESH			
Report By:	County			
Number of Doses - Vaccine Series:				
1 - DTaP/DTaP				
2 - OPV				
Summary Report				
County/Provider	Clients	In Compliance	% In Compliance	
BURESH	602	112	18.6%	
OPV	229	117	51.1%	
Detail Report				
County/Provider: BURESH	Total No. of Clients: 602			
% In Compliance Clients: 18.6%	In Compliance Clients: 112			
Vaccine	In Compliance	In Compliance		
DTaP/DTaP	112	18.6%		
OPV	229	51.1%		
OPV/OPV	362	69.1%		

Non-Compliance Survey Report

- Creates a report of all clients not up-to-date with the selected vaccines/vaccine series

Required fields:

- Min and Max Age** – required if not using birthdate range
- Starting and Ending Birthdate** – required if not using Min/Max Age
- Evaluation Date** – will include doses given on or before the date entered
- Report By** – displays rates by county or provider
- Last Provider Visited** – limits search by the last provider to enter a non-influenza vaccine in the client's record
- County** – limits search by client county of residence (based on NDIS demographics)
- Provider Type** – limits search by type of provider that entered vaccine doses
 - Can run for multiple provider types at once
- Vaccine Series** – which vaccine(s) and/or series the report will pull
 - Number of doses will need to be entered when selecting individual vaccines
 - Number of doses are auto-filled when vaccine series is selected

Report: Non-Compliance Survey

Enter Selection Criteria & Values | Fields Appearing with an Asterisk (*) Are Required.

Min Age: Starting Birthdate: Include Exceptions in Compliance Calculation: ☐ Yes ☐ No

Max Age: Ending Birthdate: Exclude Influenza from Last Provider: ☐ Yes ☐ No

Age In: Report By: Select One: Include All From Base Clients: ☐ Yes ☐ No

Evaluation Date: 10/3/2012 VFC Type(s): ALL CLIENTS

County: Provider Type:

Last Provider Visited: Doses - Vaccine Series:

Click the red 'X' to remove criteria from selection

- Can run for combination of providers, counties and provider types
- Recommend to run for only one of these criteria at a time. The more criteria that are selected, the fewer NDIS clients the report will find that actually meet the selection criteria resulting in lower rates

Non-Compliance Survey Report

Non-Compliance Survey Report
Printed on 10/23/2012 5:36:47 PM

Report Criteria

Evaluation Date: 03/23/2012
Include Influenza from Last Provider: Yes
Include All From Base Clients: No
Include Exceptions in Calculation: Yes
VFC Types: ALL VFC TYPES
Report By: County
Starting Birthdate: 01/01/2009
Ending Birthdate: 01/01/2011
Multi-Select: PROVIDER
COUNTY

Number of Doses - Vaccine Series:

4 - DTaP/DTaP-IP
3 - Hib
3 - Polio

Report

TOTAL NUMBER OF CLIENTS IN REPORT : 504

Name: LAST NAME, FIRST NAME MI Birth Date: 01/02/2009 Home: (631) 836-5529
Parent Name: Address: STREET ADDRESS, BRIDGEVIEW, MD 20603 Work:

Forecasted Vaccines	Recommended Date
Hib	01/02/2010
DTaP	01/02/2010
Polio	01/02/2010
Hep A	01/02/2010
Influenza	01/02/2010

Exemptions Based on History of Diseases: None

Provider Inventory Report

- Creates a report listing all inventory for a selected provider

Required fields:

- Provider** – report can only be run for one provider at a time
 - Users can only run the report for providers included in their access
- Include Expired Vaccines** – indicates whether the user wants expired vaccine lots included in the inventory list

Report: Provider Inventory

Enter Selection Criteria & Values | Fields Appearing with an Asterisk (*) Are Required.

Provider:

Include Expired Vaccines: ☐ Yes ☒ No

Provider Inventory
Printed on 10/23/2012 5:36:36 PM

Provider: #01 - NEW TRAINING PROVIDER
Include Expired: NO

Hib		
Lot Number	Expiration Date	Doses On Hand
0575Z - Private	04/16/2013	10
	Total	10

HepA/Hib		
Lot Number	Expiration Date	Doses On Hand
AHVB545CB - Private	03/23/2013	25
	Total	25

Lot Inventory Expiring Report

- Creates a report of a provider's lots that expire within a specified time frame.
- Required fields:
 - Expiration From Date** – will include lots expiring on this date
 - Expiration To Date** – will include lots expiring on this date
 - Provider** – report can only be run for one provider at a time
 - Users can only run the report for providers included in their access

Report: Lot Inventory Expiring

Enter Selection Criteria & Values | Fields Appearing with an Asterisk (*) Are Required.

* Expiration From Date
* Expiration To Date
Provider

Lot Inventory Expiring

Printed on 10/25/2012 5:16:25 PM

Expiration from: 01/01/2012
Expiration to date: 06/30/2012
Provider: 401 - SAN TESTING PROVIDER

Lot Number	Qty	Vaccine Name	Expiration Date	Manufacturer	Manufacturer's Control Number
0310Z	-78	CHICKENPOX	02/26/06	MERCK	
0335Z	3	MMR	03/06/06	MERCK	
0345Z	73	CHICKENPOX	03/05/05	MERCK	
0502Z	-50	ROTAVIRUS (3	05/13/12	MERCK	

Borrow Return Reports

- A "borrowed" dose of vaccine is a dose of state-supplied vaccine that was administered to a VFC "not-eligible" client or a dose of privately supplied vaccine administered to a VFC eligible client.
- The registry will keep a running tally of how many doses were borrowed from a provider's state-supplied vaccine and privately purchased vaccine inventory that is in the registry.
 - This is all done automatically by the registry, there is not an option to manually borrow and return doses of vaccine
- There are two reports for providers to run that will show how many doses have been borrowed and how many need to be returned.
 - Borrow and Return Lots - Balance
 - Borrow and Return Lots - Detailed

Reports

Help

Saved Reports New Request

Include Emergency Preparedness Reports

Report: **Borrow and Return Lots - Balance**

Enter Selection Criteria & Values | Fields Appearing with an Asterisk (*) Are Required.

* Compliance Survey
* Private Doses Administered
* Lot Inventory Expiring
* Provider Inventory
* VFC Status

Borrow Return Reports continued...

- The Borrow Return Lots - Balance Report shows:
 - doses that were owed to state supply or private supply at the time of the system upgrade in May 2013,
 - doses that have been given since the May 2013 upgrade and
 - the number of doses of each vaccine that need to be returned to the state supply and privately purchased supply.

Borrow Return Report - Balance Report

Printed on 8/18/2015 4:49:45 PM

Provider: 0000 - PROVIDER NAME

Vaccine	Starting Balance		After 8/11/2013 Doses Given		Current Balance	
	Doses Owed to State Supply	Doses Owed to Private Supply	Doses of state supplied vaccine given to VFC not-eligible	Doses of private vaccine given to VFC or other state eligible	Doses Owed to State Supply	Doses Owed to Private Supply
IPV	0	0	4	2	2	0
DTAP	0	0	1	1	0	0
MMR	0	0	2	1	1	0
INFL (VFC W/F)	0	0	1	1	0	0
CHICKENPOX	0	0	8	8	0	0
HAN (2 doses)	0	0	44	43	1	0
HIB (PREPACTHIB)	0	0	8	9	0	1
DTAP-HAN-IPV (Pharmacia)	0	0	1	2	0	1
MCVA Menactra	0	6	14	8	0	0
TDAP	0	1	2	1	0	0
MMRV	0	0	2	2	0	0

Borrow Return Reports continued...

- The Borrow Return Lots – Detailed Report shows:
 - patient and dose details about state supply vaccine give to VFC not-eligible and
 - patient and dose details about privately purchased vaccine given to VFC or other state eligible

Borrow Return Report - Detailed Report						
Printed on 8/19/2012 11:25:49 AM						
Begin Date: 03/01/2009						
End Date: 06/01/2009						
Provider: 09990 PROVIDER NAME						
State Supply Vaccine Give to VFC non-eligible - (After 03/01/2009)						
Name	Birthdate	Vaccine	Lot Number	Dose Date	VFC Eligibility	
Test Patient 1	01/12/1982	ZOSTER (SHINGLES)	0387Y	06/01/2009	NOT ELIGIBLE	
Test Patient 2	03/03/1935	ZOSTER (SHINGLES)	0387Y	06/01/2009	NOT ELIGIBLE	
Test Patient 3	02/11/1950	Tdap	MC2800154	05/01/2009	NOT ELIGIBLE	
Private Supply Vaccine Give to VFC or Other State Eligible - (After 03/01/2009)						
Name	Birthdate	Vaccine	Lot Number	Dose Date	VFC Eligibility	
Test Patient 1	03/02/1989	HEV/IA/J	AH0/9967AA	03/04/2009	NO INSURANCE	
Test Patient 2	12/03/1981	PPV23 (Pneumococcal)	126V	06/02/2009	MEDICARE	
Test Patient 3	01/05/1954	VFC (non-eligible PFT)	162P	09/17/2009	MEDICARE	

For a complete Borrow/Return tutorial go to the immunization program website at:
<http://www.ndhealth.gov/immunize/NDIIS/Training.htm>

Interoperability Effects on NDIIS Data Quality

NDIIS Interoperability

- The NDIIS is currently electronically connected to 206 individual provider practices that represent more than 60% of all doses entered into the NDIIS.
- Data that is entered into the provider's electronic health record (EHR) system is electronically sent to the NDIIS.
- The NDIIS sends client immunization history and forecast to the EHR.
 - How the information from the NDIIS is displayed in the EHR system is up to the EHR vendor and/or the provider facility.

Data Quality - forecaster

- If your EHR has it's own forecast, it may be slightly different than the NDIIS forecast.
 - Doses that are given according to your EHR's forecast may cause the dose to be invalid according to the NDIIS if the two forecasters are out of sync.
 - The immunization program sends reminder/recall notices based on the NDIIS forecaster. Patients may get recalled who are not up-to-date according to the NDIIS but will be told they are up-to-date when they contact their provider.
- When a new dose is added to a patient's EHR record and sent to the NDIIS, the record goes into a queue for the forecaster that runs every 3 hours.
 - This means that if you send a new query to the NDIIS, you will not get an immediately updated forecast. You will have to look up the record directly in the NDIIS to see the updated forecast.

forecaster continued...

- What can we do?
 - The NDIIS team is making enhancements to the forecaster so that it can handle the increased load from real-time forecasting of records entered via interoperability.
 - The NDIIS team is also working on making changes to the NDIIS forecaster so that it is in sync with CDC's clinical decision support for immunizations guidance and test cases.
 - Check with your internal IT to see how the NDIIS forecast information is displayed in your EHR system and how you can manually trigger a query to the NDIIS to get the patient's immunization history and forecast.
 - Use the NDIIS forecast when deciding what immunizations a patient needs and when.

Data Quality – duplicate clients

- When the EHR system is electronically looking for an NDIIS client record (query), the system searches based on exact match for first name, last name and birthdate.
 - If the client's name in the NDIIS is in a different format or spelled different than in the EHR system, any new doses sent to the NDIIS will result in a duplicate client record being created.
 - This is very common when an individual has a hyphenated last name, if the persons last name has changed (i.e. maiden vs. married name) or when someone is in one system with their full first name and in the other system under a nickname (i.e. Mike and Michael).
 - If the NDIIS already has an existing duplicate for a client.
 - the EHR query will not be able to display a match in the EHR and
 - any new doses sent to the NDIIS will result in another duplicate client record being created.

duplicate clients continued...

- What can we do?
 - The NDIIS team is working on changes to the electronic interface to improve our client matching.
 - Will use additional data fields, such as middle name/middle initial and gender, when searching
 - Removing spaces and special characters from the first and last name to try and reduce duplicates due to inconsistent handling of hyphenated last names
 - Are improving our functionality to work with those EHR systems that are able to handle a response from the NDIIS with more than one potential match
 - When client records are created in the NDIIS and in your EHR, make sure to use their full first name and make sure last names are spelled correctly.

Data Quality – duplicate doses

- Most of the interoperable EHR systems can only display NDIIS immunization histories, which requires users to manually enter any historical doses into their EHR.
 - This will send the historical doses back to the NDIIS and create duplicate dose records.
- Some EHR systems are also set up to continue submitting immunization doses to the NDIIS if they don't get an immediate response from the NDIIS acknowledging that the dose record was received.
 - This means that the same dose entered once into an EHR could be sent to the NDIIS multiple times, resulting in duplicate dose records.

duplicate doses continued...

- What can we do?
 - In April 2014, the NDIIS implemented a vaccine-level deduplication system that evaluates all incoming dose records for potential duplicates.
 - Approximately 80-85% of all incoming doses are automatically de-duplicated and are never added to the client's record.
 - The other 15-20% fall into a queue for manual review by immunization program staff.
 - Duplicate doses are evaluated on a daily basis.
 - Make sure to work through all duplicate dose records from the previous day by the end of the current day (i.e. all duplicates sent to the NDIIS on Monday will be reviewed and de-duplicated by end of day Tuesday).
 - The NDIIS team is planning to evaluate all NDIIS immunization records for potential duplicates added prior to April 2014.
 - Estimate this process will be completed by the end of the year.

Data Quality – inventory

- All interoperable EHR systems should require users to enter a lot number and select a distinct vaccine funding source (i.e. public or private) for every dose of vaccine administered.
 - If either of these fields is missing when the electronic message is sent to the NDIIS, the dose may still be added to the NDIIS but will have a dummy dose (vaccine abbreviation) in place of the actual lot number.
- When a dose is added to an EHR system and sent to the NDIIS, the lot number must find an exact match on both the lot number AND funding source.
 - A matching lot number will not be found and will result in a dummy dose being added if:
 - the lot number or funding source are entered incorrectly in the EHR,
 - the user enters a lot from the vaccine vial/syringe that is different than the lot number on the outer packaging and/or
 - the lot number does not exist in the provider's NDIIS inventory.

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Data Quality – inventory continued...

- When a dummy dose is added in place of the actual lot number, the dose cannot be appropriately decremented from the provider's NDIIS inventory and the dose cannot be counted as a public or private dose administered.
 - This could affect your ability to order public vaccine as your inventory doses on hand will be higher and your doses administered will be lower.
- The immunization program will follow-up each month with those providers who have dummy doses in place of a lot number and a VFC eligible status.
 - It is expected that the dose records are updated in the NDIIS since public doses administered data is used to anticipate future vaccine funding needs.

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Inventory continued...

- What can we do?
 - The NDIIS team is planning to make changes to the electronic interface to improve our lot number matching.
 - The public lot numbers automatically entered into your NDIIS inventory is from the outer packaging and this is the lot number that will need to be documented in your EHR in order to find a correct matching lot number when the dose record is sent to the NDIIS.
 - MedImmune, Pfizer, Merck and Bio CSL all use the same lot number on both the unit of sale (outer packaging) and unit of use (vial/syringe) for all of their vaccines.
 - Certain vaccines from Sanofi Pasteur, Novartis and GSK have different lot number variations between the unit of sale and unit of use.
 - Enter your private inventory into the NDIIS.
 - Make sure the lot number documented in your EHR is correct and contains no typing errors.
 - Make sure the correct funding source was selected in your EHR.

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Data Quality – patient portal

- A lot of the EHRs being used by North Dakota providers have a patient portal that allows patients to view their medical information, including immunizations.
- Almost all of the EHR patient portals are set to only show those vaccines that were actually administered by that provider or within that health system.
 - If a patient's complete immunization history has been entered into the EHR, not all of those immunizations will show in the patient portal.
 - Patients may receive notices through their patient portal telling them that they need vaccines they have already gotten
 - This is very common with adults and flu vaccine since a lot of adults get their flu vaccine somewhere other than their primary healthcare provider.

patient portal continued...

- What can we do?
 - Contact your local IT to find out what can be displayed in your EHR's patient portal.
 - Ask if there is any way to get a patient's complete history to show in the patient portal.
 - When a patient calls wondering about the notice they got from their patient portal, check the NDHS to see if they have gotten that vaccine somewhere outside of your facility.

Using the NDHS to Increase Immunization Rates

Increasing Rates

- Use all opportunities to get your patient's caught up on all required and recommended immunizations when they are in the office, regardless of the original nature of the visit.
 - Check the NDIIS forecast to see what immunizations the patient is due/past due for.
- Offer all ACIP recommended immunizations, not just those required for schools.
 - Physician recommendation has a great impact on parental acceptance of immunizations, especially HPV vaccine.
 - Consistency amongst all staff in a provider office is also important so that parents are not receiving mixed messages.
- Schedule appointments for patients to get the next vaccine in a series before they leave their current visit.
- Provide patients and parents with educational materials about the vaccine(s).

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Increasing Rates continued...

- Flag duplicate client records that are found in the NDIIS.
 - Type the word "DUPLICATE" in the second address line in the client's demographics.
 - The immunization program runs a report every Thursday that looks for flagged duplicate records.
 - Duplicate client records are combined every Friday.
- Enter all historical immunizations that are not already in the NDIIS record so the record is complete.
- Enter all vaccine exemptions in to the NDIIS.
- Run NDIIS reminder/recall for your provider, county and/or district.

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Increasing Rates continued...

- ND Immunization Program sends quarterly rate reports to all VFC enrolled providers that shows the current and previous quarter's infant and adolescent immunization rates.
 - Reports should be used to identify areas of need to increase immunization rates and decrease missed opportunities.
- Use NDIIS canned reports to assess rates and identify clients that should no longer be associated with your provider.

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Increasing Rates continued...

- Update the MOGE status of those clients that have moved out of state or who should no longer be associated with your provider.
 - To update the MOGE status of a client in the NDIIIS, your provider must be the last provider visited excluding influenza vaccine.
 - Local Public Health Unit users can update the MOGE status of any NDIIIS client regardless of the last provider visited.
 - Marking clients as MOGE or Lost To Follow-Up will exclude them from all NDIIIS provider reports.

• **Note:** For complete instructions on MOGE status, visit the immunization program web page at <http://www.ndhealth.gov/immunize/NDIIIS/Training.htm>.

Type your question in the chat window to the right

After the presentation, questions may be sent to:

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Immunization Program :
701.328.3386 or toll-free 800.472.2180

Post-test

- Post-test
 - Nurses interested in continuing education credit, visit:
<http://www.ndhealth.gov/disease/post/default.aspx?PostID=90>
 - Successfully complete the five-question post-test to receive your certificate.
 - Credit for this session is available until Tuesday, October 13, 2015.
 - This presentation will be posted to our website: www.ndhealth.gov/immunize.